

What is claimed is:

1. An optical cable to be installed on land, comprising:

a first optical fiber having a positive chromatic dispersion at a signal light wavelength; and

5 a second optical fiber having a negative chromatic dispersion at the same wavelength;

wherein said first and second optical fibers have been connected by fusion splicing at a joint, being accommodated in said optical cable.

2. An optical cable according to Claim 1, wherein said signal light wavelength is 1.55 μm .

3. An optical cable according to Claim 2, having a length which is not less than 1 km but not more than 10 km.

4. An optical cable according to Claim 2, wherein the ratio of the effective area of said first optical fiber to that of said second optical fiber is not more than 0.5 or not less than 2.0.

5. An optical cable according to Claim 2, wherein the distance between said joint and an adjacent end of said optical cable is not less than 100 m.

6. An optical cable according to Claim 2, wherein the absolute chromatic dispersion value of each of said first and second optical fibers is not less than 10 ps/nm/km at said signal light wavelength.

7. An optical cable according to Claim 2, wherein said joint has been subjected to heat treatment and re-coated subsequent to said fusion-splicing operation.

8. An optical cable according to Claim 2, wherein the splicing loss at said joint is not more than 0.3 dB.

9. An optical cable according to Claim 2, wherein each of said first and second optical fibers is provided with information for identifying each type of optical fiber.

10. A method of installing an optical cable, comprising the steps of:

preparing a first optical cable having a first optical fiber having a positive chromatic dispersion at a signal light wavelength and a second optical fiber having a negative chromatic dispersion at the same wavelength, said first and second optical fibers having been connected by fusion splicing to form a joint, being accommodated in said first optical cable;

preparing a second optical cable accommodating the same types of optical fibers as those in said first optical cable;

installing said first and second optical cables on land; and

jointing said first and second optical cables in such a way that the optical fibers of the same type accommodated in said first and second optical cables are connected together by fusion splicing.

11. A method of installing an optical cable, comprising the steps of:

preparing a first and second optical cables each having a first optical fiber having a positive chromatic dispersion at a signal light wavelength and a second optical fiber having a negative chromatic dispersion at the same wavelength, said first and second optical fibers having been connected by fusion splicing to form a joint, being accommodated in said respective optical

cables;

installing said first and second optical cables on land; and

jointing said first and second optical cables in such a way that the optical fibers of the same type accommodated in said first and second optical
5 cables are connected together by fusion splicing.

12. An optical transmission line, comprising:

a first optical cable having a first optical fiber having a positive chromatic dispersion at a signal light wavelength and a second optical fiber having a negative chromatic dispersion at the same wavelength, said first and
10 second optical fibers having been connected by fusion splicing to form a joint, being accommodated in said first optical cable; and

a second optical cable accommodating the same types of optical fibers as those in said first optical cable;

said first and second optical cables being installed on land and jointed
15 together in such a way that the optical fibers of the same type accommodated in said first and second optical cables are connected together by fusion splicing.

13. An optical transmission line, comprising:

a first and a second optical cables, each having a first optical fiber having a positive chromatic dispersion at a signal light wavelength and a
20 second optical fiber having a negative chromatic dispersion at the same wavelength, said first and second optical fibers having been connected by fusion splicing to form a joint, accommodated in said first and second optical cables,

said first and second optical cables being installed on land and jointed together in such a way that the optical fibers of the same type accommodated in said first and second optical cables are connected together by fusion splicing.